

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((HARUKAZU) near2 (KITAGAWA)).INV.	US-PGPUB; USPAT	AND	ON	2007/08/01 16:40
L2	2	((HARUKAZU) near2 (KITAGAWA)).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/08/01 16:42
L3	2	((SUMIKO) near2 (IHO)).INV.	EPO; JPO; DERWENT	AND	ON	2007/08/01 16:41
L4	2	((TAKASUMI) near2 (MATSUKI)).INV.	EPO; JPO; DERWENT	AND	ON	2007/08/01 16:41
L5	445	((SABURO) near2 (YAMAMOTO)).INV.	EPO; JPO; DERWENT	AND	ON	2007/08/01 16:41
L6	0	5 and (immunostimulatory or immunomodulatory) and oligonucleotide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/08/01 16:42
L7	1	5 and (immunostimulatory or immunomodulatory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/08/01 16:48
L8	4	("2003091593").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/01 16:48
L9	2	("20030091593").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/01 17:22
L10	7	GGGGGGGGGGACGATCGTCG\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/08/01 17:23
L11	11	GGGGGGACGATCGTCG\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/08/01 17:23

L7 ANSWER 19 OF 20 USPATFULL on STN

IT 502778-55-4

(packaging of immunostimulatory substances and antigens into virus-like particles for use as vaccines against cancer, autoimmune disease, allergy and viral infection)

RN 502778-55-4 USPATFULL

CN DNA, d(P-thio) (G-G-G-G-G-G-G-G-A-C-G-A-T-C-G-T-C-G-G-G-G-G-G-G-G-G-G-G) (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

ACCESSION NUMBER: 2003:145924 USPATFULL <<LOGINID::20070801>>

TITLE: Packaging of immunostimulatory substances into virus-like particles: method of preparation and use

INVENTOR(S): Bachmann, Martin, Winterthur, SWITZERLAND
Storni, Tazio, Viganello, SWITZERLAND
Maurer, Patrik, Winterthur, SWITZERLAND
Tissot, Alain, Zurich, SWITZERLAND
Schwarz, Katrin, Schlieren, SWITZERLAND
Meijerink, Edwin, Zurich, SWITZERLAND
Lipowsky, Gerd, Zurich, SWITZERLAND
Pumpens, Paul, Riga, LATVIA
Cielens, Indulis, Riga, LATVIA
Renhofa, Regina, Riga, LATVIA

PATENT ASSIGNEE(S): Cytos Biotechnology AG (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2003099668 A1 20030529

APPLICATION INFO.: US 2002-244065 A1 20020916 (10)

NUMBER	DATE
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PRIORITY INFORMATION: US 2001-318994P 20010914 (60)
US 2002-374145P 20020422 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934

NUMBER OF CLAIMS: 207

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 60 Drawing Page(s)

LINE COUNT: 7907

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the finding that virus like particles (VLPs) can be loaded with immunostimulatory substances, in particular with DNA oligonucleotides containing non-methylated C and G (CpGs). Such CpG-VLPs are dramatically more immunogenic than their CpG-free counterparts and induce enhanced B and T cell responses. The immune response against antigens optionally coupled, fused or attached otherwise to the VLPs is similarly enhanced as the immune response against the VLP itself. In addition, the T cell responses against both the VLPs and antigens are especially directed to the Th1 type. Antigens attached to CpG-loaded VLPs may therefore be ideal vaccines for prophylactic or therapeutic vaccination against allergies, tumors and other self-molecules and chronic viral diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 20 OF 20 USPATFULL on STN

IT 502953-40-4

(antiviral and antitumor vaccines comprising anti-CD4 antibody or immunostimulatory nucleic acid and antigen-coupled virus-like particles

for enhancement of immune responses and activation of antigen-presenting cells)

RN 502953-40-4 USPATFULL

CN DNA, d(P-thio) (G-G-G-G-G-G-G-G-A-C-G-A-T-C-G-T-C-G-G-G-G-G-G-G-G) (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

ACCESSION NUMBER: 2003:133508 USPATFULL <<LOGINID::20070801>>

TITLE: In vivo activation of antigen presenting cells for enhancement of immune responses induced by virus like particles

INVENTOR(S): Bachmann, Martin F., Winterthur, SWITZERLAND
Lechner, Franziska, Zurich, SWITZERLAND

PATENT ASSIGNEE(S): Storni, Tazio, Viganello, SWITZERLAND
Cytos Biotechnology AG (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003091593	A1	20030515
APPLICATION INFO.:	US 2002-243739	A1	20020916 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-318967P	20010914 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934

NUMBER OF CLAIMS: 194

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 6522

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the finding that stimulation of antigen presenting cell (APC) activation using substances such as anti-CD40 antibodies or DNA oligomers rich in non-methylated C and G (CpGs) can dramatically enhance the specific T cell response obtained after vaccination with recombinant virus like particles (VLPs) coupled, fused or otherwise attached to antigens. While vaccination with recombinant VLPs fused to a cytotoxic T cell (CTL) epitope of lymphocytic choriomeningitis virus induced low levels cytolytic activity only and did not induce efficient anti-viral protection, VLPs injected together with anti-CD40 antibodies or CpGs induced strong CTL activity and full anti-viral protection. Thus, stimulation of APC-activation through antigen presenting cell activators such as anti-CD40 antibodies or CpGs can exhibit a potent adjuvant effect for vaccination with VLPs coupled, fused or attached otherwise to antigens.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 15:30:20 ON 01 AUG 2007)

FILE 'CAPLUS' ENTERED AT 15:30:46 ON 01 AUG 2007

FILE 'STNGUIDE' ENTERED AT 15:33:30 ON 01 AUG 2007

L1 FILE 'REGISTRY' ENTERED AT 15:45:06 ON 01 AUG 2007
44 S GGGGGGGGGGACGATCGTCG/SQSN

L2 FILE 'CAPLUS, USPATFULL' ENTERED AT 15:46:20 ON 01 AUG 2007
17 FILE CAPLUS

L3 8 FILE USPATFULL
TOTAL FOR ALL FILES
L4 25 S L1
L5 12 FILE CAPLUS
L6 8 FILE USPATFULL
TOTAL FOR ALL FILES
L7 20 S L4 AND (IMMUNOSTIMULATORY OR IMMUNOMODULATING)

=> log y
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST ENTRY 67.87 101.82
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
SESSION
CA SUBSCRIBER PRICE ENTRY -9.36 -9.36

STN INTERNATIONAL LOGOFF AT 15:50:06 ON 01 AUG 2007